XLI. *Extract of a Letter from Mr.* Edward Gulſton, *at* Chittigong, *to Major* John Carnac, *at* Calcutta.

Dear Sir,

Read Nov. 17, 1763. THE reaſon principally of this addreſs is to give you a particular account of the ſhocks of a violent earthquake, which were felt here on the 2d inſtant at 5 in the afternoon laſting the ſpace of four minutes. The factory, a brick building, is totally ſpoiled, ſo as not to be ſafely habitable; for thereabouts, and in many other places, the earth opened, and the waters guſhed out prodigiouſly; and in the chaiſe-road, eſpecially towards the north quarter, there are great chaſms two feet wide and upwards, ſo ſtrange, that the morning after, riding that way, the horſe ſtarted and went round another way, not willing to go over them.

At the time of the firſt ſhake, great exploſions were heard like the noiſe of cannons, of which Mr. Plaiſted and others counted 15.

All the tanks overflowed their banks, fiſh were caſt up, and the river ruſhed upon the ſhore like the ſurf of the ſea. It was the moſt extraordinary event I was ever witneſs to: by the encloſed paper you will diſcern how many alarms we had, however nothing equal to the firſt, in which the whole force of the earthquake ſeems to be exerted. At preſent, the afternoon of the 4th of April, all our heads ſeem to be quiet and ſtill, and conſequently the earth at reſt; but really

The Royal Society is collaborating with JSTOR to digitize, preserve, and extend access to *Philosophical Transactions (1683-1775).* www.jstor.org

really yeſterday, from the repeated tremours of the ground, every one appeared giddy and alarmed, fancying the earth to be in perpetual vibration, which however an experiment of a glaſs of water upon the floor by no means admitted of. I would not that ſuch a ſhock as the firſt ſhould happen at Calcutta for all I am worth, ſince of neceſſity the terraſſed houſes muſt fall to ruin, and I pleaſe myſelf with the thoughts, that we have had the worſt of it.

Chittigong, April 4, 1762. I am, &c.

Copy of the Paper mentioned in the foregoing letter.

Chittigong, April 2, 1762.

April 2 at $\begin{matrix} h & ' \\ 5 & 0 \end{matrix}$ P. M. a ſevere ſhock of an earthquake laſted 4 minutes.

5 12 a ſecond laſted one minute.
5 30 a third.
7 0 a fourth.
10 0 a fifth.
1 0 in the morning of the 3d, a ſixth.
2 0 a ſeventh.
3 0 an eighth.
5 0 a ninth.
10 25 a tenth.
10 30 an eleventh.

Between 6 and 7 in the evening I felt a twelfth ſhock; alſo others upon Marriet's hill, at a diſtance from mount Pleaſant, which every one thought in continual motion.

XLII. *An*